

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 85-92

WASTE DISCHARGE REQUIREMENTS FOR:

TRIANGLE PWC, INC.
PITTSBURG, CONTRA COSTA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. Triangle PWC, Inc., hereinafter called the discharger, submitted a report of waste discharge dated October 20, 1982.
2. The discharger operates an electroplating facility with a wastewater treatment and recycle system. The wastewater consists of process rinse water and cooling water and stormwater runoff from parts of the site. Some undiverted surface runoff from the site drains to an unnamed ditch on the east side of the facility. This ditch is tributary to Suisun Bay.
3. Wastewater is treated by pH adjustment followed by polymer addition to remove metals (mostly iron and zinc). The treated water is stored in a rubber lined concrete reuse water pond before returning to the process. The sludge produced is classified as a hazardous waste primarily because of its high zinc concentration and is produced at a rate of about 2 to 3 cubic yards per day. This waste is stored in a concrete basin for two to three weeks and then hauled away. The basin is equipped with a drain which drains water from the basin to the pH treatment pond. The discharger is registered as a hazardous waste generator.
4. The pH treatment pond and the reuse water pond are exempt from regulation under Title 22, Chapter 3, Subchapter 15 of the California Administrative Code by Section 2511(i) of these regulations. However, the pH treatment pond is a potential threat to water quality because it may allow leakage of high pH, iron, and zinc into underlying soils.
5. The sludge storage basin is classified as a Class I waste pile for hazardous waste storage. The existing basin does not meet the construction specifications in Subchapter 15, and there is insufficient evidence to show that the geologic siting criterion is met.
6. Prior to construction of the sludge storage basin a year ago, the sludge had been stored on the ground in an area adjacent to the basin. The extent of contamination due to this storage is unknown, and there is no documentation of any clean-up in this area.

7. There is an area northeast of the plant which contains buried sludge from past activities at the plant (see Attachment A). Some of the soil from this area, which may be contaminated, has been moved to a different area on site. No soil investigation to determine the level and extent of contamination has been done in either area.
8. The geology and hydrogeology under this site has not been well defined but generally consists of alluvial clay with sand and silt layers. Water has been encountered at 18 feet below ground level.
9. The discharger submitted a proposed groundwater monitoring program dated May 28, 1985 in response to the Subchapter 15 requirements.
10. The discharger submitted a proposed work plan dated May 30, 1985 for soil and subsurface investigation of the areas noted in Findings 5, 6, and 7.
11. An emergency spill pond is used to store excess water or chemical spills in case of an emergency. It is a rubber lined concrete pond.
12. The land within 1000 feet of this site is used for industrial, open space, and residential purposes.
13. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Region (Basin Plan) on July 21, 1982, and this order implements the water quality objectives stated in the Plan.
14. The potential beneficial uses of groundwater in the area are:
 - a. Municipal Supply
 - b. Industrial Process and Service Supply
 - c. Agricultural Supply
15. The beneficial uses of Suisun Bay are:
 - a. Water Contact Recreation
 - b. Non-Contact Water Recreation
 - c. Wildlife Habitat
 - d. Preservation of Rare and Endangered Species
 - e. Fish Migration and Spawning
 - f. Industrial Service and Supply
 - g. Navigation
 - h. Commercial and Sport Fishing
 - i. Estuarine Habitat
16. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for this discharge.
17. The Board in a public meeting heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that the discharger, and any other person(s) that operates this site, shall comply with the following:

A. Wastewater Treatment Specifications

1. A minimum freeboard of two (2) feet shall be maintained in the pH treatment pond and reuse water pond.
2. The structural integrity of the ponds shall be maintained to prevent spillage or leakage of wastewater into adjacent areas.

B. Waste Sludge Storage Specifications

1. The sludge storage basin shall be at least 5 feet above the highest anticipated underlying groundwater.
2. The sludge storage basin shall be immediately underlain by natural geologic material with a permeability of not greater than 1×10^{-7} cm/s. An exception to this may be granted by the Board based on a demonstration submitted by the discharger pursuant to Section 2510(b) and (c) of Subchapter 15.
3. The sludge storage basin shall be modified with a liner or liners according to the specifications and standards under Section 2542 of Subchapter 15, after approval of the proposed modifications by the Executive Officer. An exception to this may be granted by the Board based on a demonstration submitted by the discharger pursuant to Section 2510(b) and (c) of Subchapter 15.
4. The discharger shall maintain the drain in the basin to prevent buildup of leachate and precipitation in the basin.
5. The discharger shall cover the waste sludge as necessary to prevent percolation of precipitation through the waste.
6. The discharger shall remove and relocate any waste which is placed on this site in violation of these requirements.
7. Any water which has contacted the sludge shall be discharged to the wastewater treatment system.
8. The sludge storage basin must be capable of withstanding the maximum credible earthquake without damage to the basin, its foundation, or the drain structure.

C. Waste Disposal Prohibitions

1. The treatment or storage of waste shall not cause pollution or nuisance as defined in Section 13050 of the California Water Code.
2. The treatment or storage of waste shall not degrade the quality of any usable groundwater.
3. No liquid wastes or containers with free liquids shall be stored or disposed of in the sludge storage basin.

4. The disposal or storage of waste sludge on site, outside of the designated storage basin is prohibited.
5. There shall be no seepage or overflow from the sludge storage basin.
6. The discharge of wastewater onto land or surface waters is prohibited.

D. Provisions

1. The discharger shall maintain a copy of this order at the site so as to be available at all times to site operating personnel.
2. The discharger shall comply with all sections of this order immediately upon adoption except Specifications B.2 and B.3, and Prohibition C.4 for the areas noted in Findings 6 and 7.
 - a. The discharger shall investigate the geology and hydrogeology of the site and shall comply with the following time schedule to determine compliance with Specification B.2 and to demonstrate compliance with Prohibition C.2:

| <u>Task</u> | <u>Completion date</u> | <u>Report date</u> |
|---|----------------------------|------------------------|
| Complete field work in accordance with an approved work plan | August 23, 1985 | - |
| Final report with results and conclusions. If the site does not meet the permeability requirement in B.2, the discharger shall submit a demonstration for exception. | November 30, 1985 | November 30, 1985 |
| Depending on the conclusions of the above task, submit a proposal for any necessary remedial action along with a time schedule for completion to achieve full compliance with C.2 [1] | - | November 15, 1985 |
| Full compliance with Specification B.2 | May 30, 1986 | May 30, 1986 |

- b. The discharger shall comply with the following time schedule to achieve compliance with Specification B.3:

| <u>Task</u> | <u>Completion date</u> | <u>Report date</u> |
|--|------------------------|--------------------|
| Submit a detailed proposal for the necessary modifications or submit a demonstration for exception | - | November 30, 1985 |
| Full compliance with Specification B.3 | May 30, 1986 | May 30, 1986 |

- c. The discharger shall determine the levels and extent of contamination in the areas noted in Findings 6 and 7 and shall comply with the following time schedule to achieve compliance with Prohibition C.4:


| <u>Task</u> | <u>Completion date</u> | <u>Report date</u> |
|---|------------------------|--------------------|
| Complete field work in accordance with an approved work plan | August 23, 1985 | - |
| Submit results and a proposal for any necessary remedial action along with a time schedule for completion to achieve full compliance with C.4 [1] | - | October 15, 1985 |

[1] Any remedial action and its schedule of completion shall be subject to the approval of the Board.

3. Based on the information obtained from Provision D 2.a., the discharger shall amend the proposed groundwater monitoring program noted in Finding 9 by November 15, 1985. The program is subject to the approval of the Executive Officer. The discharger shall implement an approved groundwater monitoring program and comply with any future amendments to the program as directed by the Executive Officer.
4. The discharger shall review and update annually its contingency plan.
5. The discharger shall notify this Regional Board of any material change or proposed change in the character, location, or quantity of the waste treated or stored. For the purposes of these requirements, this includes any proposed change in the boundaries, contours, or ownership of the waste treatment and storage areas.

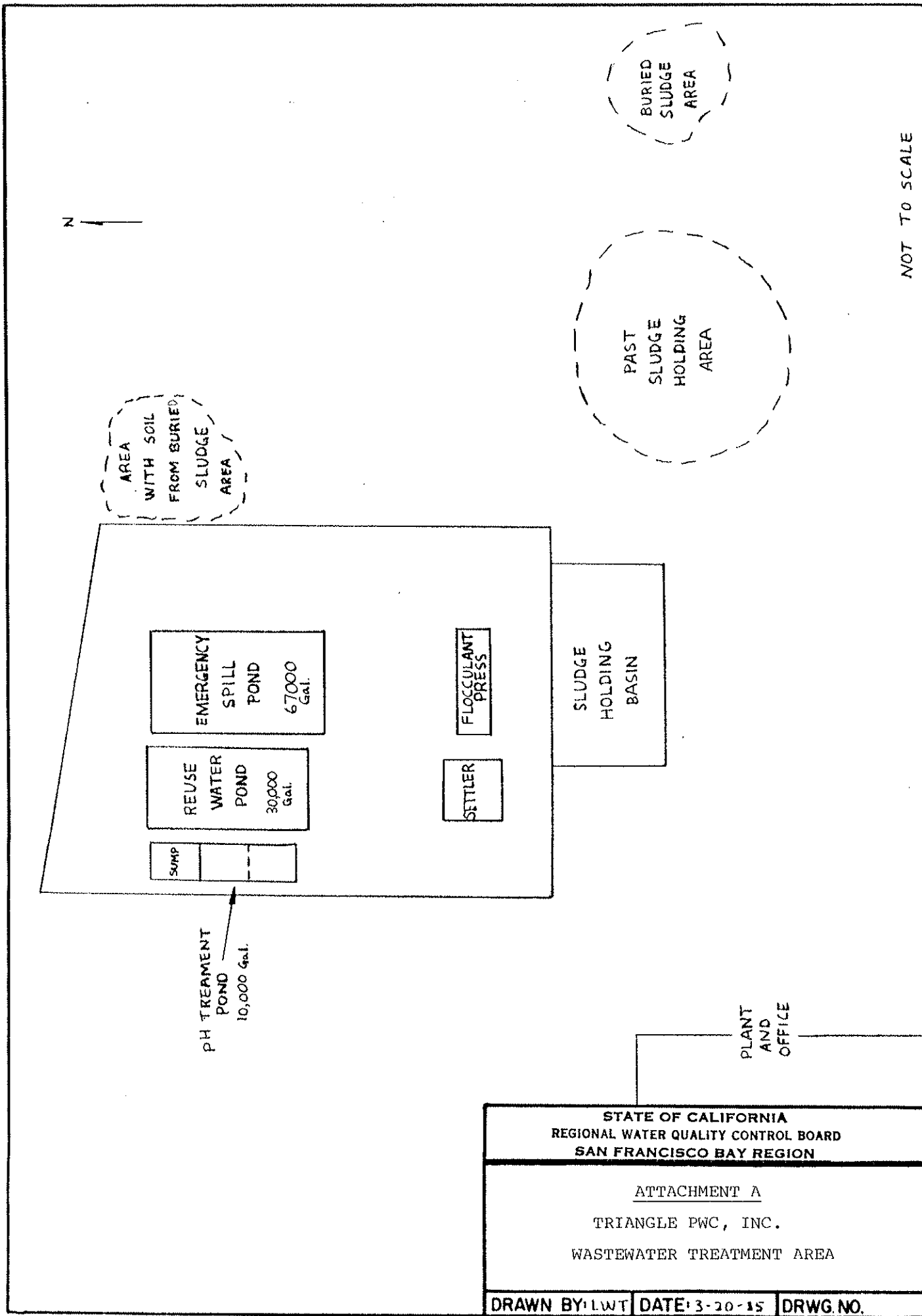
6. This Board considers the property owner to have a continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge and water applied to this property during the subsequent use of the land for other purposes.
7. The discharger shall permit the Regional Board:
 - (a) Entry upon premises on which waste are located or in which any required records are kept,
 - (b) access to copy any records required to be kept under terms conditions of this Order,
 - (c) inspection of monitoring equipment or records, and
 - (d) sampling of any discharge.

I, Roger B. James, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on July 17, 1985.



Roger B. James
Executive Officer

Attachment:
Attachement A



NOT TO SCALE

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|---|---------------|-----------|
| STATE OF CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN FRANCISCO BAY REGION | | |
| ATTACHMENT A TRIANGLE PWC, INC. WASTEWATER TREATMENT AREA | | |
| DRAWN BY: LWT | DATE: 3-20-15 | DRWG. NO. |